**AgES-W Model / AgESGUI Tasks for Sept. 2012 Release – Version 1.0**

AgES-W Model Tasks

1. Remove rainfall Richter correction - use correct modification for the US.
2. Fix potential regionalization error.
3. Remove unused variables from input files.
4. Finalize output variables – daily (variables printing correctly, correct values), catchment-weighted, crop growth, N pool, overall N, water/N balance, sediment balance, output by layer.
5. Update crop, tillage, and fertilizer input files.
6. Evaluate and test MUSLE erosion calculations.
7. Improve model runtime speed (currently 2-3 mins./year for I7 quad-core processor).
8. Fully implement water table/tile drainage code.
9. Implement irrigation modules.
10. Implement Green-Ampt infiltration module(s) w/IRS overland flow.
11. Implement WEPP hillslope erosion module.
12. Integrate UPGM (all modules or just key components?).

AgESGUI

1. Fix shape file error for HRUs.
2. Fully integrate new output files (including daily, monthly, and yearly averages).
3. Additional testing needed for input file editor + input file builder.
4. Finish and integrate watershed delineation tool (need to test and improve AgES-W topology file builder tool).

Other

1. Finalize Cedar Creek Watershed example input set – both Upper and Full.
2. Complete OMS3 Technical Documentation.
3. Complete AgES-W Technical Documentation (need to finish input variable definitions).
4. Complete AgESGUI User Manual.